



PTO-1449 Information Disclosure Citation in an Application	Application No. 10/014,839	Applicant(s) Mohammed N. Islam	
	Docket Number 069204.0177	Group Art Unit 3663	Filing Date December 10, 2001

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		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
Gandha Hughes	A	4,063,106	12/13/1977	Ashkin et al.	307	88.3	04/25/1977
	B	4,685,107	08/04/1987	Kafka et al.	372	6	06/09/1986
	C	4,715,679	12/29/1987	Bhagavatula	350	96.33	02/02/1987
	D	4,740,974	04/26/1988	Byron	372	3	12/11/1985
	E	4,831,616	05/16/1989	Huber	370	3	03/31/1987
	F	5,039,199	08/13/1991	Mollenauer et al.	359	334	12/29/1989
	G	5,050,183	09/17/1991	Duling, III	372	94	11/05/1990
	H	5,058,974	10/22/1991	Mollenauer	385	27	10/06/1989
	I	5,107,360	04/21/1992	Huber	359	124	11/05/1990
	J	5,117,196	05/26/1992	Epworth et al.	359	333	04/23/1990
	K	5,132,976	07/21/1992	Chung et al.	372	6	05/28/1991
	L	5,134,620	07/28/1992	Huber	372	6	11/20/1990
	M	5,140,456	08/18/1992	Huber	359	341	04/08/1991

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							YES	NO
Gandha Hughes	N	WO 98/20587	05/14/1998	PCT	H01S	3/30	X	
	O	EP 0 903 876 A1	03/24/1999	EPO	H04B	10/17	X	
	P	EP 0 936 761 A1	08/18/1999	EPO	H04B	10/18	X	
	Q	WO 02/17518 A1	02/28/2002	PCT	H04B	10/17	X	

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Gandha Hughes	R	Sun et al., "80nm ultra-wideband erbium-doped silica fibre amplifier," Electronics Letters Vol. 33, No. 23, pp. 1965-1967	11/06/1997
	S	Wysocki et al., "Broad-Band Erbium-Doped Fiber Amplifier Flattened Beyond 40 nm Using Long-Period Grating Filter," IEEE Photonics Technology Letters, Vol. 9, No. 10, pp. 1343-1345	10/10/1997
	T	Liaw et al., "Passive Gain-Equalized Wide-Band Erbium-Doped Fiber Amplifier Using Samarium-Doped Fiber," IEEE Photonics Technology Letters, Vol. 8, No. 7, pp. 879-881	07/1996
	U	Yamada et al., "A Low-Noise and Gain-Flattened Amplifier Composed of a Silica-Based and a Fluoride-Based Er ³⁺ -Doped Fiber Amplifier in a Cascade Configuration," IEEE Photonics Technology Letters, Vol. 8, No. 5, pp. 620-622	05/1996
	V	Ma et al., "240-km Repeater Spacing in a 5280-km WDM System Experiment Using 8 x 2.5 Gb/s NRZ Transmission," IEEE Photonics Technology Letters, Vol. 10, No. 6, pp. 893-895	06/1998

EXAMINER

Gandha Hughes

DATE CONSIDERED

SEPT 22, 2004

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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PTO-1449 Information Disclosure Citation in an Application	Application No.	Applicant(s)	
	10/014,839	Mohammed N. Islam	
	Docket Number	Group Art Unit	Filing Date
	069204.0177	3663	December 10, 2001

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A	5,151,908	09/29/1992	Huber	372	6	10/09/1991
B	5,153,762	10/06/1992	Huber	359	125	03/19/1990
C	5,159,601	10/27/1992	Huber	372	6	07/17/1991
D	5,166,821	11/24/1992	Huber	359	238	03/12/1991
E	5,187,760	02/16/1993	Huber	385	37	01/23/1992
F	5,191,586	03/02/1993	Huber	372	6	07/18/1991
G	5,191,628	03/02/1993	Byron	385	27	10/29/1991
H	5,200,964	04/06/1993	Huber	372	26	01/15/1992
I	5,208,819	05/04/1993	Huber	372	32	01/23/1992
J	5,210,631	05/11/1993	Huber et al.	359	132	12/22/1989
K	5,212,579	05/18/1993	Huber et al.	359	182	03/11/1991
L	5,218,655	06/08/1993	Mizrahi	385	39	05/29/1992
M	5,222,089	06/22/1993	Huber	372	26	01/08/1992
N	5,225,925	07/06/1993	Grubb et al.	359	341	07/24/1991
O	5,226,049	07/06/1993	Grubb	372	6	02/06/1992

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Q	Kawai, S. et al., "Ultra-Wide, 75-nm 3-dB gain-Band Optical Amplifier Utilising Gain-Flattened Erbium-Doped Fluoride Fibre Amplifier and Discrete Raman Amplification," Electronics Letters, Vol. 34, No. 9, pp. 897-898	04/30/1998
R	Kidorf et al., Pump Interactions in a 100-nm Bandwidth Raman Amplifier," IEEE Photonics Technology Letters, Vol. 11, No. 5, pp. 530-532	05/1999
S	Ono et al., "Gain-Flattened Er ³⁺ -Doped Fiber Amplifier for a WDM Signal in the 1.57-1.60-μm Wavelength Region," IEEE Photonics Technology Letters, Vol. 9, No. 5, pp. 596-598	05/1997
T	Hansen et al., "529km unrepeated transmission at 2.488 GBit/s using dispersion compensation, forward error correction, and remote post- and pre-amplifiers pumped by diode-pumped Raman lasers," IEEE Electronics Letters, Online No. 19951043	07/07/1998
U	Guy et al., "Lossless Transmission of 2ps Pulses Over 45km of Standard Fibre at 1.3μm Using Distributed Raman Amplification," Electronics Letters, Vol. 34, No. 8, pp. 793-794	04/06/1998

EXAMINER <i>Sandra Hughes</i>	DATE CONSIDERED <i>Sept 22, 2004</i>
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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	10/014,839	Mohammed N. Islam	
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→ Danda Hughes	A	5,243,609	09/07/1993	Huber	372	19	05/22/1992
	B	5,257,124	10/26/1993	Glaab et al.	359	124	08/15/1991
	C	5,268,910	12/07/1993	Huber	372	6	07/27/1992
	D	5,271,024	12/14/1993	Huber	372	6	07/27/1992
	E	5,283,686	02/01/1994	Huber	359	337	07/27/1992
	F	5,293,545	03/08/1994	Huber	359	111	07/27/1992
	G	5,295,016	03/15/1994	Van Deventer	359	347	05/29/1992
	H	5,295,209	03/15/1994	Huber	385	37	11/10/1992
	I	5,301,054	04/05/1994	Huber et al.	359	132	01/14/1993
	J	5,321,543	06/14/1994	Huber	359	187	10/20/1992
	K	5,321,707	06/14/1994	Huber	372	6	07/27/1992
	L	5,323,404	06/21/1994	Grubb	372	6	11/02/1993
	M	5,331,449	07/19/1994	Huber et al.	359	125	03/15/1993
	N	5,359,612	10/25/1994	Dennis et al.	372	18	09/29/1993
	O	5,373,389	12/13/1994	Huber	359	195	10/27/1992

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→ Danda Hughes	R	Dianov et al., "Highly efficient 1.3μm Raman fibre amplifier," Electronics Letters, Vol. 34, No. 7, pp. 669-670	04/02/1998
	S	Chernikov et al., "Raman Fibre Laser Operating at 1.24μm," Electronics Letters, Vol. 34, No. 7, 2 pages	04/02/1998
	T	Masuda et al., "Wideband, Gain-Flattened, Erbium-Doped Fibre Amplifiers with 3dB Bandwidths of >50nm," Electronics Letters, Vol. 33, No. 12, pp. 1070-1072	06/05/1997
	U	Yang et al., "Demonstration of Two-Pump Fibre Optical Parametric Amplification," Electronics Letters, Vol. 33, No. 21, pp. 1812-1813	10/09/1997
	V	Paschotta et al., "Ytterbium-Doped Fiber Amplifiers," IEEE Journal of Quantum Electronics, Vol. 33, No. 7, pp. 1049-1056	07/1997

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DAL01:793955

PTO-1449		Application No. 10/014,839		Applicant(s) Mohammed N. Islam			
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U.S. PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
↑ A B C D E F G H I J K L M N O ↓	A	5,389,779	02/14/1995	Betzig et al.	250	216	07/29/1993
	B	5,400,166	03/21/1995	Huber	359	173	10/20/1992
	C	5,416,629	05/16/1995	Huber	359	182	12/02/1992
	D	5,450,427	09/12/1995	Fermann et al.	372	18	10/21/1994
	E	5,467,212	11/14/1995	Huber	359	168	12/30/1994
	F	5,473,622	12/05/1995	Grubb	372	6	12/29/1994
	G	5,477,555	12/19/1995	Debeau et al.	372	25	01/21/1994
	H	5,479,291	12/26/1995	Smith et al.	359	333	04/08/1994
	I	5,485,481	01/16/1996	Ventrudo et al.	372	6	06/28/1994
	J	5,497,386	03/05/1996	Fontana	372	18	09/15/1994
	K	5,504,609	04/02/1996	Alexander et al.	359	125	05/11/1995
	L	5,504,771	04/02/1996	Vahala et al.	372	94	11/03/1992
	M	5,513,194	04/30/1996	Tamura et al.	372	6	04/07/1995
	N	5,521,738	05/28/1996	Froberg et al.	359	184	06/30/1994
	O	5,530,710	06/25/1996	Grubb	372	6	05/15/1995
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↑ Q R S T U V ↓	Q	Grubb, S.G. et al., "Fiber Raman Lasers Emit at Many Wavelengths," Laser Focus World, pp. 127-134					02/1996
	R	Mollenauer, L.F. et al., "Dispersion-Managed Solutions for Terrestrial Transmission," Optical Society of America, 0146-9592/99/050285-03					Rec'd 10/28/1998
	S	Hansen, S.L., et al., "Gain Limit in Erbium-Doped Fiber Amplifiers Due to Internal Rayleigh Backscattering," IEEE Photonics Technology Letters, Vol. 4, No. 6, pp. 559-661					06/1992
	T	Spirit et al., "Systems Aspects of Raman Fibre Amplifiers," Optical Amplifiers for Communication, IEEE Proceedings, Vol. 137, Pt. J, No. 4, pp. 221-224					08/1990
	U	Mollenauer et al., "Soliton Propagation in Long Fibers with Periodically Compensated Loss," IEEE Journal of Quantum Electronics, Vol. QE-22, No. 1, pp. 157-173					01/1986
	V	Hansen et al., "Rayleigh Scattering Limitations in Distributed Raman Pre-Amplifiers," IEEE Photonics Technology Letters, Vol. 10, No. 1, pp. 159-161					01/1998
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<i>Handwritten:</i> A B C D E F G H I J K L M N	A	5,532,864	07/02/1996	Alexander et al.	359	177	06/01/1995
	B	5,541,947	07/30/1996	Mourou et al.	372	25	05/10/1995
	C	5,542,011	07/30/1996	Robinson	385	24	09/09/1994
	D	5,555,118	09/10/1996	Huber	359	125	08/11/1995
	E	5,557,442	09/17/1996	Huber	359	179	12/30/1994
	F	5,577,057	11/19/1996	Friskien	372	18	09/20/1993
	G	5,579,143	11/26/1996	Huber	359	130	06/04/1993
	H	5,600,473	02/04/1997	Huber	359	179	02/24/1995
	I	5,617,434	04/01/1997	Tamura et al.	372	6	04/22/1996
	J	5,659,351	08/19/1997	Huber	348	7	12/30/1994
	K	5,659,559	08/19/1997	Ventrudo et al.	372	6	03/21/1995
	L	5,659,644	08/19/1997	DiGiovanni et al.	385	31	06/07/1996
	M	5,673,281	09/30/1997	Byer	372	3	04/20/1996
	N	5,701,186	12/23/1997	Huber	359	125	03/29/1996
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<i>Handwritten:</i> P Q R S T	P	Marhic, M.E. et al., "Cancellation of Stimulated-Raman-Scattering Cross Talk in Wavelength-Division-Multiplexed Optical Communication Systems by Series or Parallel Techniques," Optical Society of America, Vol 15, No. 3, pp. 958-963					03/1998
	Q	Ikeda, M., "Stimulated Raman Amplification Characteristics in Long Span Single-Mode Silica Fibers," Optics Communications, Vol. 39, No. 3, pp. 148-152					Rec'd 06/15/1981
	R	Chraplyvy, et al., "Performance Degradation due to Stimulated Raman Scattering in Wavelength-Division- Multiplexed Optical-Fibre Systems," Electronics Letters, Vol. 19, No. 16, pp. 651-643					08/04/1983
	S	Grandpierre et al., "Theory of Stimulated Raman Scattering Cancellation in Wavelength-Division-Multiplexed Systems via Spectral Inversion," IEEE Photonics Technology Letters, Vol. 11, No. 10, pp. 1271-1273					10/1999
	T	Chinn, "Analysis of Counter-Pumped Small-Signal Fibre Raman Amplifiers," Electronics Letters, Vol. 33, No. 7, pp. 607-608					03/27/1997
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<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> Search by [Handwritten Signature] </div>	A	5,726,784	03/10/1998	Alexander et al.	359	125	03/29/1996
	B	5,734,665	03/31/1998	Jeon et al.	372	6	09/18/1996
	C	5,757,541	05/26/1998	Fidit	359	341	01/15/1997
	D	5,768,012	06/16/1998	Zanoni et al.	359	341	03/07/1997
	E	5,798,855	08/25/1998	Alexander et al.	359	177	06/28/1996
	F	5,825,520	10/20/1998	Huber	359	130	08/11/1995
	G	5,831,754	11/03/1998	Nakano	359	161	05/01/1995
	H	5,838,700	11/17/1998	Dianov et al.	372	6	02/11/1997
	I	5,841,797	11/24/1998	Ventrudo et al.	372	6	12/24/1996
	J	5,847,862	12/08/1998	Chraplyvy et al.	359	337	11/29/1997
	K	5,861,981	01/19/1999	Jabr	359	341	08/20/1997
	L	5,880,866	03/09/1999	Stolen	359	138	11/13/1996
	M	5,883,736	03/16/1999	Oshima et al.	359	341	02/21/1997
	N	5,887,093	03/23/1999	Hansen et al.	385	27	09/12/1997
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<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> Search by [Handwritten Signature] </div>	P	Stolen, R.H. et al., "Raman Gain in Glass Optical Waveguides," Appl. Phys. Lett., Vol. 2, No. 6, pp. 276-278					03/15/1973
	Q	Stolen, R.H. et al., "Development of the Stimulated Raman Spectrum in Single-Mode Silica Fibers," Optical Society of America, Vol. 1, No. 4, pp. 662-667					08/1984
	R	Takachio, N. et al., "32x10 Gb/s Distributed Raman Amplification Transmission with 50-GHz Channel Spacing in the Zero-Dispersion Region over 640km of 1.55-μm Dispersion-shifted Fiber," NTT Network Innovation Laboratories, 12 pages					(OFC) 1999
	S	Dianov, "Raman fiber amplifiers," Fiber Optics Research Center at the General Physics Institute of the Russian Academy of Sciences, Moscow, Russia, 5 pages					© 1999
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	U	S.A.E. Lewis, et al., "1.4W Saturated Output Power from a Fibre Raman Amplifier," Femtosecond Optics Group, Physics Department, Imperial College, London, England, 114/WG5-1, 3 pages					OFC 1999
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<i>Handwritten:</i> A B C D E F G H I J K L M	A	5,920,423	07/06/1999	Grubb et al.	359	341	12/05/1997
	B	6,147,794	11/14/2000	Stentz	359	334	02/04/1999
	C	6,204,960 B1	03/20/2001	Desurvire	359	341	07/06/1999
	D	6,342,965 B1	01/29/2002	Kinoshita	359	334	03/19/1996
	E	6,344,922 B1	02/05/2002	Grubb et al.	359	334	02/19/1999
	F	6,433,921 B1	08/13/2002	Wu et al.	359	334	02/15/2001
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<i>Handwritten:</i> A B C D E		USSN 10/100,591, "System and Method for Managing System Margin," Islam et al., pending					03/15/2002
		USSN 10/100,587, "Fiber Optic Transmission System with Low Cost Transmitter Compensation," Islam, pending					03/15/2002
		USSN 10/116,487, "Fiber Optic Transmission System for a Metropolitan Area Network," Islam, pending					04/03/2002
		USSN 10/100,589, "System and Method for Dispersion Compensation in an Optical Communication System," Islam et al., pending					03/15/2002
		USSN 10/100,700, "Rack System for an End Terminal in an Optical Communication Network," Islam et al., pending					03/15/2002
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